

Title (en)

REFLECTIVE OPTICAL SENSOR FOR BILL VALIDATOR

Title (de)

REFLEKTIERENDER OPTISCHER SENSOR FÜR EINEN GELDSCHHEININVALIDIERER

Title (fr)

DETECTEUR OPTIQUE A REFLEXION POUR VALIDATION DE BILLETS DE BANQUE

Publication

EP 1704536 A1 20060927 (EN)

Application

EP 04802280 A 20041210

Priority

- CA 2004002103 W 20041210
- CA 2453229 A 20031212

Abstract (en)

[origin: US2005127305A1] A simple high optical efficiency reflective optical sensor for bill validator uses an inexpensive bulb having a case which is transparent to efficient luminous radiation. This case is used as a wave guide to return reflected radiation to at least one photo detector situated directly under the transparent bottom of the case. The bulb emits a narrow beam of light and is positioned in close proximity and perpendicular to a bill surface and illuminates it. The light reflected or fluoresced by the bill is collected widely with a convex lens end of the bulb case and this collected radiation is transmitted through the bulb case to the at least one photo detector. Preferably, the bulb is a light emitting diode.

IPC 8 full level

G07D 7/12 (2016.01); **G01N 21/956** (2006.01); **G07D 7/121** (2016.01)

CPC (source: EP US)

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DOCDB simple family (publication)

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US 906104 A 20041213; AU 2004296413 A 20041210; CA 2004002103 W 20041210; CA 2453229 A 20031212; CN 200480037010 A 20041210;
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